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Amendments to the Claims

Claims 1-37 (Cancelled).

38. (Previously presented) A semiconductor wafer assembly, comprising:
a semiconductive substrate comprising monocrystalline silicon;
a silicon oxide layer over and physically contacting the semiconductive substrate;

a composite silicon nitride material over and physically contacting the silicon oxide layer, the composite silicon nitride material having a thickness, a first portion of the thickness having a first ratio of silicon to nitrogen and a second portion of the thickness having a second ratio of silicon to nitrogen which is greater than the first ratio, the second portion being greater than 1% of the thickness of the composite silicon nitride material; and

a photoresist over and physically against the composite silicon nitride material.

- 39. (Cancelled)
- 40. (Previously presented) The wafer assembly of claim 38 wherein the second portion of the thickness is less than or equal to 5 nm.
- 41. (Previously presented) The wafer assembly of claim 38 wherein the first portion of the thickness is greater than 95 nm.

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- 42. (Previously presented) The wafer assembly of claim 38 wherein the second ratio of silicon to nitrogen is at least one.
- 43. (Previously presented) The wafer assembly of claim 38 wherein the second portion of the thickness comprises at least one of Si₄N₄, Si₇N₄ and Si₁₀N₁.
- 44. (Previously presented) The wafer assembly of claim 38 wherein the first portion of the thickness comprises Si₃N₄.
 - 45. (Previously presented) A semiconductor wafer assembly comprising: a silicon oxide layer over a substrate;
- a composite layer over and physically contacting the silicon oxide layer, the composite layer having an thickness, a first portion of the thickness comprising a first silicon nitride material having a first refractive index and a second portion of the thickness comprising a second silicon nitride material having a second refractive index which is greater than the first refractive index, the thickness of the second portion being greater than 1% of the thickness of the composite layer; and
 - a photoresist over the composite layer.
- 46. (Previously presented) The assembly of claim 45 wherein the first material is disposed between the silicon oxide layer and the second silicon nitride material.

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(Previously presented) The assembly of claim 45 wherein the second 47. refractive index is greater than or equal to 2.2.